

WHAT IS CLAIMED IS:

1. A piezoelectric ceramic belt (1) for generating electrical power made by the steps of:

depositing a multiple even number of electrodes (4) on a first surface of an endless belt composed of piezoelectric ceramic material;

placing a first (6) and second (7) electrical pickup line on opposite sides of the first surface ,

depositing a multiple even number of electrodes 5 of the same size and shape as electrodes 4 on a second surface of the endless belt opposite the first surface;

placing a first (10) and second (11) electrical pickup line on opposite sides of the second surface,

applying a high voltage to all electrode paired segments to polarize them such that only electrode paired segments are given piezoelectric ceramic properties;

forming a connecting line (8) between alternate odd numbered of the electrodes (4) and connecting the connecting line (8) to the first electrical pickup line (6),

forming a connecting line (9) between alternate even numbered of the electrodes 4 and connecting the connecting line (9) to the second electrical pickup line (7),

forming a connecting line (12) between alternate odd numbered of the electrodes (5) and connecting the connecting line (12) to the first electrical pickup line (10)

forming a connecting line (11) between alternate even numbered of the electrodes 5 and connecting the connecting line (11) to the second electrical pick up line (13)

whereby an electrical circuit is formed connecting the electrodes 4 and 5 to the respective pick up lines 6,7 and 10,11 respectively via connecting lines 8,9 and 12, 13 respectively.

2. A piezoelectric ceramic belt (16) as defined in claim 1 further comprising: coating an insulating film on the first surface defining the outer circumference thereof of the belt and on the second surface defining the inner circumference of the multi-electrode piezoelectric ceramic belt and coating a conductive film (15) on each of the electric pickup lines.

3. A belt type piezoelectric power generator for a piezoelectric ceramic belt (16) arranged to form an endless loop with the belt having an upper and lower side containing multiple electrodes on each side thereof in an arrangement forming multiple pairs of electrodes with the electrodes being polarized upon the application of high voltage and with said generator further comprising two rows of rollers adapted to be driven by a conventional drive source with the rollers alternately arranged for driving the belt continuously to cause continuous wavy motion and having current collecting means for continuously generating electric power from the moving piezoelectric ceramic belt with the multi-electrode piezoelectric ceramic belt (16) located between outer rollers (17) and inner rollers (18) which pinch the ceramic belt as it is moved.

4. The belt type power generator of Claim 3 wherein electric energy generated by multi-electrode piezoelectric ceramic belt (16) is captured by providing an electrical pickup shoe (21) or electrical pickup ring (22) at a point touching only conductive film 15, which is linearly provided on the outer end of said inner and said outer circumferences.